

Serial Number:

09/904,389

CRF Processing Date

8/27/2001

Edited by:

Verified by:

(STIC stat

ENTERED☐

Changed a file from non-ASCII to ASCII

☐

Changed the margins in cases where the sequence text was "wrapped" down to the next line.

☐

Edited a format error in the Current Application Data section, specifically:

☐Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____☐

Added the mandatory heading and subheadings for "Current Application Data".

☐

Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐

Changed the spelling of a mandatory field (the headings or subheadings), specifically:

☐

Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:

☐

Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☐

Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐

Inserted colons after headings/subheadings. Headings edited included:

☐

Deleted extra, invalid, headings used by an applicant, specifically:

☐Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file;
☐ page numbers throughout text; ☐ other invalid text, such as _____☐

Inserted mandatory headings, specifically: _____

☐

Corrected an obvious error in the response, specifically: _____

☐

Edited identifiers where upper case is used but lower case is required, or vice versa.

☐

Corrected an error in the Number of Sequences field, specifically: _____

☐

A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____☒

Other:

Seq 3 - deleted 's' from 44137 response

*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 08/27/2001

TIME: 17:12:55

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08272001\I904389.raw

4 <110> APPLICANT: Clendennen, Stephanie K.
5 Schuster, Debra K.
7 <120> TITLE OF INVENTION: CTRL HOMOLOGUE FROM MELON
10 <130> FILE REFERENCE: 4257-0029.30
C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/904,389
C--> 13 <141> CURRENT FILING DATE: 2001-07-12
15 <150> PRIOR APPLICATION NUMBER: US 60/218,307
16 <151> PRIOR FILING DATE: 2000-07-14
18 <160> NUMBER OF SEQ ID NOS: 8
20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
22 <210> SEQ ID NO: 1
23 <211> LENGTH: 3286
24 <212> TYPE: DNA
25 <213> ORGANISM: Cucumis melo
27 <220> FEATURE:
28 <221> NAME/KEY: misc_feature
29 <222> LOCATION: (81)...(81)
30 <223> OTHER INFORMATION: n = A,T,C or G
32 <220> FEATURE:
33 <221> NAME/KEY: misc_feature
34 <222> LOCATION: (593)...(594)
35 <223> OTHER INFORMATION: n = A,T,C or G
37 <400> SEQUENCE: 1
38 attcgattgt cggaagaga gagcagaaaa ttaaaaccag aatctccaac acacaaacct 60
W--> 39 tccacccctt caacaatggc nggattctag ggtttctatg ggtttaagggt gatacagttt 120
40 cctaatttct ccatggaaat gcctggacgg aggtctgatt actctctttt aagtcaaatt 180
41 ccggacgagg aggttggaac gggagcttcc acttcctttt acgactccgt agcagctggg 240
42 ggaaacgtta tcaaaggag aaccgatagg gtttttgatt gggatgggag tggatgatcac 300
43 aggttaaaca cgcaggcgta tcggataggg aacctgtatt catggattgg ttacagaga 360
44 cattccagtg gaagcagcta cgatgatagc tctctctcta gtgattacta cgcaccgacg 420
45 ctatcaaacc ctgcagcaaa tgagatcaat gcattggaat atatcctcga tgatgatttc 480
46 cgagtgatga aagctgtggg aagtggagggt tcgtctggaa agagctgggc ccagcagacg 540
W--> 47 gaagagagct ttcagttgca gcagcccttg gttcttaggc tttcttcaga tgnnacttgt 600
48 gccgatgatc ccaactttat ggatccgatt ccagacgagg cagctttaag atcgttatcg 660
49 atttcagctg aggccatctc gcacgggttc tgggtaaatg gatgcattgc atatttgagg 720
50 aaagtgccag atggttttta tctaattcat gggatggacc catatgtatg gtcattatgc 780
51 accaatctgc aagaggatgg gcgtatacca tcatttgaat ctctgaaaac agttgattcc 840
52 agcatcggtt catcaattga agtagttttg atagatcggc atagtgatgc tagcttaaaa 900
53 gaactgcaaa acagggtgca taatatttct tccagttgtg taaccacaaa agaggttgca 960
54 gatcatatag caaagctggt atgcaatcac ttggggggtt cagtttctga gggagaagat 1020
55 gacttggttt ctgcctggaa ggaatgcagc gatgacttaa aggaatgttt gggatctgct 1080
56 gtgattccct tatgcagctt atctgttggc ctttgtagac atcgtgctct tttattcaaa 1140
57 gtccatagct attcaattga tttaccctgt cgaattgcca aaggatgtaa atattgcact 1200
58 agagatgatg cttcatcttg ccttggttagg ttcgggcttg ataggaata tctcatcgat 1260
59 ctgattggga ggccaggttg cttatgccaa cctgattctt tgctcaatgg tccatcatcc 1320
60 atctcaattt cttcaccatt gcgatttcca agactaaaac ctattgaatc taccattgat 1380
61 ttcaggtcac tggccaaaca gtatttcttg gatagccaat cacttaatct tgtatttgat 1440

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 08/27/2001

TIME: 17:12:55

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08272001\I904389.raw

```

62 gaagcttctt caggtaatgt tgtatctggg aaggatgctg cattctccgt ctatcaaagg 1500
63 ccattaaata ggaaggatgt agatggaaaa accatagtgg ttactgggtga caaggacaga 1560
64 aattctcagt tattaaataa aaaagcagcc caactgaata ctcaagatgg aaagtctgag 1620
65 caatttagat catgtgttgc ttctccatat agtgtacagt cgaccccttt tgtagaaaat 1680
66 gtagtccctt taagccatat ctacacacatt ggttctgaag attcggagca tctcttagca 1740
67 ttgtctcatc caaggatgga tcatgttaac aatttaccat ttgttcatgg tagtcagttg 1800
68 attagaaaac caaatgagct tcccttggc ttagaagatt tggttattcc atggacagat 1860
69 cttgatttga gggagaaaat tggagcaggt tcttttggga ctgtatatcg tggtgagtgg 1920
70 catggctctg atgttgctgt gaagatcctc acagaacaag acttccatcc tgaacgtgtt 1980
71 aatgagtttc tgagagaggt tgctatcatg aaatctttac gacatcctaa tattgtactg 2040
72 tttatgggtg cggtgaccaa gccaccaaac ttgtccattg tcaccgaata tctatcgaga 2100
73 ggtagcttgt ataggctttt gcataagtca ggtgtcaaag acatagatga aacacgtcga 2160
74 ataaatatgg cttttgatgt ggcaaaggga atgaactacc tccacagacg tgatcctcca 2220
75 attgttcatc gtgattttaa atcaccgaat ctgttagttg acaagaagta tacagtcaag 2280
76 gtttgtgatt ttggtctctc ccgtttaaag gcacgcacat ttctttcatc caaatctgca 2340
77 gctggaacac ctgaatggat ggcaccagaa gtactacgcg atgaaccatc aaatgaaaag 2400
78 tcagatgttt acagctttgg agtgattttg tgggagttgg caactttgca acagccatgg 2460
79 tgtaatctaa acccagctca ggttgctgca gctgttggat ttaagggcaa aaggcttgac 2520
80 atcccacgtg atgtaaatcc caaattggct tccttaatag tggcttgctg ggccgatgag 2580
81 ccatggaaac gtccttcttt ttccagcatt atggaaacct tgaaaccaat gactaaacaa 2640
82 gcgccacctc aacaaagtcg cacagacacc ctctcggtta tgtgacaatg tgtgtatcat 2700
83 aggaatgcct gacgctttgg agggctaagt acgggtacct tcaagagatg tctggcatgt 2760
84 ttaaaaccat actccaaaca agcaagcacc tgtgctcgta gccaaatttt ccattgctag 2820
85 tagttacaat tttcaagcta agttccttgt accgtgcttc tcaagttttt gtgaacggat 2880
86 ggggaagtgt tggaaaactt caactgctag acgattccat caaatttatt ctcagttcat 2940
87 aatcatcaaa atgtagagag attataaaaa tgtggatcac ttcatagtcc acaatcaagg 3000
88 aagtttctac ctttttgcta tggatgatgaa gaaacttcaa ctccatgtca ccctatttca 3060
89 cttcacacat tatttgtttg tatactctatt ggtcttacct ttgaggaccg gaccaggaac 3120
90 taattttgta tatactagtg atcagttgtg gatggatgca atcatgtctt cagtcagact 3180
91 tgggtgttgc tagggaaata tcattgttgt tatttaacag ccacttcaaa cattcaatta 3240
92 attttcaccg agtctattat tctaaaaaaa aaaaaaaaaa aaaaaa 3286

```

94 <210> SEQ ID NO: 2

95 <211> LENGTH: 850

96 <212> TYPE: PRT

97 <213> ORGANISM: Cucumis melo

99 <220> FEATURE:

100 <221> NAME/KEY: VARIANT

101 <222> LOCATION: (154)...(154)

102 <223> OTHER INFORMATION: Xaa = Any Amino Acid

104 <400> SEQUENCE: 2

```

105 Met Glu Met Pro Gly Arg Arg Ser Asp Tyr Ser Leu Leu Ser Gln Ile
106 1 5 10 15
107 Pro Asp Glu Glu Val Gly Thr Gly Ala Ser Thr Ser Phe Tyr Asp Ser
108 20 25 30
109 Val Ala Ala Gly Gly Asn Val Ile Lys Gly Arg Thr Asp Arg Val Phe
110 35 40 45
111 Asp Trp Asp Gly Ser Gly Asp His Arg Leu Asn Thr Gln Ala Tyr Arg
112 50 55 60
113 Ile Gly Asn Leu Tyr Ser Trp Ile Gly Leu Gln Arg His Ser Ser Gly

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 08/27/2001

TIME: 17:12:55

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08272001\I904389.raw

```

114 65          70          75          80
115 Ser Ser Tyr Asp Asp Ser Ser Leu Ser Ser Asp Tyr Tyr Ala Pro Thr
116          85          90          95
117 Leu Ser Asn Pro Ala Ala Asn Glu Ile Asn Ala Leu Glu Tyr Ile Leu
118          100          105          110
119 Asp Asp Asp Phe Arg Val Met Lys Ala Val Gly Ser Gly Gly Ser Ser
120          115          120          125
121 Gly Lys Ser Trp Ala Gln Gln Thr Glu Glu Ser Phe Gln Leu Gln Gln
122          130          135          140
W--> 123 Pro Leu Val Leu Arg Leu Ser Ser Asp Xaa Thr Cys Ala Asp Asp Pro
124 145          150          155          160
125 Asn Phe Met Asp Pro Ile Pro Asp Glu Ala Ala Leu Arg Ser Leu Ser
126          165          170          175
127 Ile Ser Ala Glu Ala Ile Ser His Arg Phe Trp Val Asn Gly Cys Met
128          180          185          190
129 Ser Tyr Leu Glu Lys Val Pro Asp Gly Phe Tyr Leu Ile His Gly Met
130          195          200          205
131 Asp Pro Tyr Val Trp Ser Leu Cys Thr Asn Leu Gln Glu Asp Gly Arg
132          210          215          220
133 Ile Pro Ser Phe Glu Ser Leu Lys Thr Val Asp Ser Ser Ile Gly Ser
134 225          230          235          240
135 Ser Ile Glu Val Val Leu Ile Asp Arg His Ser Asp Ala Ser Leu Lys
136          245          250          255
137 Glu Leu Gln Asn Arg Val His Asn Ile Ser Ser Ser Cys Val Thr Thr
138          260          265          270
139 Lys Glu Val Ala Asp His Ile Ala Lys Leu Val Cys Asn His Leu Gly
140          275          280          285
141 Gly Ser Val Ser Glu Gly Glu Asp Asp Leu Val Ser Ala Trp Lys Glu
142          290          295          300
143 Cys Ser Asp Asp Leu Lys Glu Cys Leu Gly Ser Ala Val Ile Pro Leu
144 305          310          315          320
145 Cys Ser Leu Ser Val Gly Leu Cys Arg His Arg Ala Leu Leu Phe Lys
146          325          330          335
147 Val Leu Ala Asp Ser Ile Asp Leu Pro Cys Arg Ile Ala Lys Gly Cys
148          340          345          350
149 Lys Tyr Cys Thr Arg Asp Asp Ala Ser Ser Cys Leu Val Arg Phe Gly
150          355          360          365
151 Leu Asp Arg Glu Tyr Leu Ile Asp Leu Ile Gly Arg Pro Gly Cys Leu
152          370          375          380
153 Cys Gln Pro Asp Ser Leu Leu Asn Gly Pro Ser Ser Ile Ser Ile Ser
154 385          390          395          400
155 Ser Pro Leu Arg Phe Pro Arg Leu Lys Pro Ile Glu Ser Thr Ile Asp
156          405          410          415
157 Phe Arg Ser Leu Ala Lys Gln Tyr Phe Leu Asp Ser Gln Ser Leu Asn
158          420          425          430
159 Leu Val Phe Asp Glu Ala Ser Ser Gly Asn Val Val Ser Gly Lys Asp
160          435          440          445
161 Ala Ala Phe Ser Val Tyr Gln Arg Pro Leu Asn Arg Lys Asp Val Asp
162          450          455          460

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 08/27/2001

TIME: 17:12:55

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08272001\I904389.raw

```

163 Gly Lys Thr Ile Val Val Thr Gly Asp Lys Asp Arg Asn Ser Gln Leu
164 465 470 475 480
165 Leu Asn Lys Lys Ala Ala Gln Leu Asn Thr Gln Asp Gly Lys Ser Glu
166 485 490 495
167 Gln Phe Arg Ser Cys Val Ala Ser Pro Tyr Ser Val Gln Ser Thr Pro
168 500 505 510
169 Phe Val Glu Asn Val Val Pro Leu Ser His Ile Ser His Ile Gly Ser
170 515 520 525
171 Glu Asp Ser Glu His Leu Leu Ala Leu Ser His Pro Arg Met Asp His
172 530 535 540
173 Val Asn Asn Leu Pro Phe Val His Gly Ser Gln Leu Ile Arg Lys Pro
174 545 550 555 560
175 Asn Glu Leu Ser Leu Gly Leu Glu Asp Leu Val Ile Pro Trp Thr Asp
176 565 570 575
177 Leu Asp Leu Arg Glu Lys Ile Gly Ala Gly Ser Phe Gly Thr Val Tyr
178 580 585 590
179 Arg Gly Glu Trp His Gly Ser Asp Val Ala Val Lys Ile Leu Thr Glu
180 595 600 605
181 Gln Asp Phe His Pro Glu Arg Val Asn Glu Phe Leu Arg Glu Val Ala
182 610 615 620
183 Ile Met Lys Ser Leu Arg His Pro Asn Ile Val Leu Phe Met Gly Ala
184 625 630 635 640
185 Val Thr Lys Pro Pro Asn Leu Ser Ile Val Thr Glu Tyr Leu Ser Arg
186 645 650 655
187 Gly Ser Leu Tyr Arg Leu Leu His Lys Ser Gly Val Lys Asp Ile Asp
188 660 665 670
189 Glu Thr Arg Arg Ile Asn Met Ala Phe Asp Val Ala Lys Gly Met Asn
190 675 680 685
191 Tyr Leu His Arg Arg Asp Pro Pro Ile Val His Arg Asp Leu Lys Ser
192 690 695 700
193 Pro Asn Leu Leu Val Asp Lys Lys Tyr Thr Val Lys Val Cys Asp Phe
194 705 710 715 720
195 Gly Leu Ser Arg Leu Lys Ala Arg Thr Phe Leu Ser Ser Lys Ser Ala
196 725 730 735
197 Ala Gly Thr Pro Glu Trp Met Ala Pro Glu Val Leu Arg Asp Glu Pro
198 740 745 750
199 Ser Asn Glu Lys Ser Asp Val Tyr Ser Phe Gly Val Ile Leu Trp Glu
200 755 760 765
201 Leu Ala Thr Leu Gln Gln Pro Trp Cys Asn Leu Asn Pro Ala Gln Val
202 770 775 780
203 Val Ala Ala Val Gly Phe Lys Gly Lys Arg Leu Asp Ile Pro Arg Asp
204 785 790 795 800
205 Val Asn Pro Lys Leu Ala Ser Leu Ile Val Ala Cys Trp Ala Asp Glu
206 805 810 815
207 Pro Trp Lys Arg Pro Ser Phe Ser Ser Ile Met Glu Thr Leu Lys Pro
208 820 825 830
209 Met Thr Lys Gln Ala Pro Pro Gln Gln Ser Arg Thr Asp Thr Leu Ser
210 835 840 845
211 Val Met

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 08/27/2001

TIME: 17:12:55

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08272001\I904389.raw

```

212      850
214 <210> SEQ ID NO: 3
215 <211> LENGTH: 28
216 <212> TYPE: DNA
217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: synthetic oligonucleotide
222 <400> SEQUENCE: 3
223 caatatttac atccyttggc aattcgac 28
225 <210> SEQ ID NO: 4
226 <211> LENGTH: 29
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: synthetic oligonucleotide
233 <400> SEQUENCE: 4
234 cgtgstgakt ggcattggctc kgatgttgc 29
236 <210> SEQ ID NO: 5
237 <211> LENGTH: 24
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: synthetic oligonucleotide
244 <400> SEQUENCE: 5
245 atgtttggga tctgctgtga ttcc 24
247 <210> SEQ ID NO: 6
248 <211> LENGTH: 24
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: synthetic oligonucleotide
255 <400> SEQUENCE: 6
256 tttggtggct tggtcaccgc accc 24
258 <210> SEQ ID NO: 7
259 <211> LENGTH: 24
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: synthetic oligonucleotide
266 <400> SEQUENCE: 7
267 catgtgttgc ttctccatat agtg 24
269 <210> SEQ ID NO: 8
270 <211> LENGTH: 24
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: synthetic oligonucleotide
277 <400> SEQUENCE: 8
278 tcatctatgt ctttgacacc tgac 24

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/904,389

DATE: 08/27/2001

TIME: 17:12:56

Input Set : A:\Pto.amc

Output Set: N:\CRF3\08272001\I904389.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 07/26/2001

TIME: 15:20:10

Input Set : A:\4257-0029.30-SEQLIST.txt

Output Set: N:\CRF3\07262001\I904389.raw

4 <110> APPLICANT: Clendennen, Stephanie K.
 5 Schuster, Debra K.
 7 <120> TITLE OF INVENTION: CTRL HOMOLOGUE FROM MELON
 10 <130> FILE REFERENCE: 4257-0029.30
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/904,389
 C--> 13 <141> CURRENT FILING DATE: 2001-07-12
 15 <150> PRIOR APPLICATION NUMBER: US 60/218,307
 16 <151> PRIOR FILING DATE: 2000-07-14
 18 <160> NUMBER OF SEQ ID NOS: 8
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 3286
 24 <212> TYPE: DNA
 25 <213> ORGANISM: Cucumis melo
 27 <220> FEATURE:
 28 <221> NAME/KEY: misc_feature
 29 <222> LOCATION: (81)...(81)
 30 <223> OTHER INFORMATION: n = A,T,C or G
 32 <220> FEATURE:
 33 <221> NAME/KEY: misc_feature
 34 <222> LOCATION: (593)...(594)
 35 <223> OTHER INFORMATION: n = A,T,C or G
 37 <400> SEQUENCE: 1

38	attcgattgt	cgggaagaga	gagcagaaaa	ttaaaaccag	aatctccaac	acacaaacct	60
W--> 39	tccaccctt	caacaatggc	nggattctag	ggtttctatg	ggtttaaggt	gatacagttt	120
40	cctaatttct	ccatggaaat	gcctggacgg	aggtctgatt	actctctttt	aagtcaaatt	180
41	ccggacgagg	aggttggaac	gggagcttcc	acttcctttt	acgactccgt	agcagctggg	240
42	ggaaacgtta	tcaaaggag	aaccgatagg	gtttttgatt	gggatgggag	tggatgatcac	300
43	aggttaaaca	cgcaggcgta	tcggataggg	aacctgtatt	catggattgg	tttacagaga	360
44	cattccagtg	gaagcagcta	cgatgatagc	tctctctcta	gtgattacta	cgcaccgacg	420
45	ctatcaaacc	ctgcagcaaa	tgagatcaat	gcattggaat	atatcctcga	tgatgatttc	480
46	cgagtgatga	aagctgtggg	aagtggaggt	tcgtctggaa	agagctgggc	ccagcagacg	540
W--> 47	gaagagagct	ttcagttgca	gcagcccttg	gttcttaggc	tttcttcaga	tgnnacttgt	600
48	gccgatgatc	ccaactttat	ggatccgatt	ccagacgagg	cagctttaag	atcgttatcg	660
49	atttcagctg	aggccatctc	gcatecgttc	tgggtaaatg	gatgcattgc	atatttgagg	720
50	aaagtgccag	atggttttta	tctaattcat	gggatggacc	catatgtatg	gtcattatgc	780
51	accaatctgc	aagaggatgg	gcgtatacca	tcatttgaat	ctctgaaaac	agttgattcc	840
52	agcatcgggt	catcaattga	agtagttttg	atagatcggc	atagtgatgc	tagcttaaaa	900
53	gaactgcaaa	acagggtgca	taatatttct	tccagttgtg	taaccacaaa	agaggttgca	960
54	gatcatatag	caaagctggg	atgcaatcac	ttgggggggt	cagtttctga	gggagaagat	1020
55	gacttggttt	ctgcctggaa	ggaatgcagc	gatgacttaa	aggaatgttt	gggatctgct	1080
56	gtgattccct	tatgcagctt	atctgttggc	ctttgtagac	atcgtgctct	tttattcaaa	1140
57	gtcctagctg	attcaattga	tttaccctgt	cgaattgcca	aaggatgtaa	atattgcact	1200
58	agagatgatg	cttcactctg	ccttggttagg	ttcgggcttg	ataggggaata	tctcatcgat	1260
59	ctgattggga	ggccagggtg	cttatgccaa	cctgattctt	tgctcaatgg	tccatcatcc	1320
60	atctcaattt	cttcaccatt	gcgattttcca	agactaaaac	ctattgaatc	taccattgat	1380
61	ttcagggtcac	tggccaaaca	gtatttcttg	gatagccaat	cacttaatct	tgtatttgat	1440

Does Not Comply
 Corrected Diskette Needed

P.5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 07/26/2001

TIME: 15:20:10

Input Set : A:\4257-0029.30-SEQLIST.txt

Output Set: N:\CRF3\07262001\I904389.raw

```

62 gaagcttctt caggtaatgt tgtatctggg aaggatgctg cattctccgt ctatcaaagg 1500
63 ccattaaata ggaaggatgt agatggaaaa accatagtgg ttactgggtga caaggacaga 1560
64 aattctcagt tattaaataa aaaagcagcc caactgaata ctcaagatgg aaagtctgag 1620
65 caatttagat catgtgttgc ttctccatat agtgtacagt cgaccccttt tgtagaaaat 1680
66 gtagtccctt taagccatat ctcacacatt ggttctgaag attcggagca tctcttagca 1740
67 ttgtctcatc caaggatgga tcatgttaac aatttaccat ttgttcatgg tagtcagttg 1800
68 attagaaaac caaatgagct ttcccttggc ttagaagatt tggttattcc atggacagat 1860
69 cttgatttga gggagaaaat tggagcaggt tcttttggga ctgtatatcg tggtgagtgg 1920
70 catggctctg atgttgctgt gaagatcctc acagaacaag acttccatcc tgaacgtgtt 1980
71 aatgagtttc tgagagaggt tgctatcatg aaatctttac gacatcctaa tattgtactg 2040
72 tttatgggtg cggtgaccaa gccaccaaac ttgtccattg tcaccgaata tctatcgaga 2100
73 ggtagcttgt ataggctttt gcataagtca ggtgtcaaag acatagatga aacacgtcga 2160
74 ataaatatgg cttttgatgt ggcaaaggga atgaactacc tccacagacg tgatcctcca 2220
75 attgttcatc gtgattttaa atcacccaat ctgttagttg acaagaagta tacagtcaag 2280
76 gtttgtgatt ttggtctctc ccgttttaag gcacgcacat ttctttcatc caaatctgca 2340
77 gctggaacac ctgaatggat ggcaccagaa gtactacgcg atgaaccatc aaatgaaaag 2400
78 tcagatgttt acagcttttg agtgattttg tgggagttgg caactttgca acagccatgg 2460
79 tgtaatctaa acccagctca ggttgctcga gctgttggat ttaagggcaa aaggcttgac 2520
80 atcccacgtg atgtaaatcc caaatgggtc tccttaatag tggcttgctg ggccgatgag 2580
81 ccatggaaac gtccctcttt ttccagcatt atggaaacct tgaaaccaat gactaaacaa 2640
82 gcgccacctc aacaaagtcg cacagacacc ctctcgggta tgtgacaatg tgtgtatcat 2700
83 aggaatgctt gacgcttttg agggctaagt acggtacctc tcaagagatg tctggcatgt 2760
84 ttaaaacatc actccaaaca agcaagcacc tgtgctcgtg gccaaatttt ccattgctag 2820
85 tagttacaat tttcaagcta agttccttgt accgtgcttc tcaagttttt gtgaacggat 2880
86 ggggaagtgt tggaaaactt caactgctag acgattccat caaatttatt ctcagttcat 2940
87 aatcatcaaa atgtagagag attataaaaa tgtggatcac ttcatagtc ccaatcaagg 3000
88 aagtttctac ctttttgcta tggatgatgaa gaaacttcaa ctccatgtca cctatttca 3060
89 cttcacacat tatttgtttg tatactctatt ggtcttacct ttgaggaccg gaccaggaac 3120
90 taattttgta tatactagtgt atcagttgtg gatggatgca atcatgtctt cagtcagact 3180
91 tgggtgttgc tagggaaaata tcattgttgt tatttaacag ccacttcaaa cattcaatta 3240
92 attttcaccg agtctattat tctaaaaaaa aaaaaaaaaa aaaaaa 3286

```

94 <210> SEQ ID NO: 2

95 <211> LENGTH: 850

96 <212> TYPE: PRT

97 <213> ORGANISM: Cucumis melo

99 <220> FEATURE:

100 <221> NAME/KEY: VARIANT

101 <222> LOCATION: (154)...(154)

102 <223> OTHER INFORMATION: Xaa = Any Amino Acid

104 <400> SEQUENCE: 2

105 Met Glu Met Pro Gly Arg Arg Ser Asp Tyr Ser Leu Leu Ser Gln Ile

106 1 5 10 15

107 Pro Asp Glu Glu Val Gly Thr Gly Ala Ser Thr Ser Phe Tyr Asp Ser

108 20 25 30

109 Val Ala Ala Gly Gly Asn Val Ile Lys Gly Arg Thr Asp Arg Val Phe

110 35 40 45

111 Asp Trp Asp Gly Ser Gly Asp His Arg Leu Asn Thr Gln Ala Tyr Arg

112 50 55 60

113 Ile Gly Asn Leu Tyr Ser Trp Ile Gly Leu Gln Arg His Ser Ser Gly

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 07/26/2001

TIME: 15:20:10

Input Set : A:\4257-0029.30-SEQLIST.txt

Output Set: N:\CRF3\07262001\I904389.raw

114	65					70					75					80
115	Ser	Ser	Tyr	Asp	Asp	Ser	Ser	Leu	Ser	Ser	Asp	Tyr	Tyr	Ala	Pro	Thr
116					85					90					95	
117	Leu	Ser	Asn	Pro	Ala	Ala	Asn	Glu	Ile	Asn	Ala	Leu	Glu	Tyr	Ile	Leu
118				100				105						110		
119	Asp	Asp	Asp	Phe	Arg	Val	Met	Lys	Ala	Val	Gly	Ser	Gly	Gly	Ser	Ser
120			115					120					125			
121	Gly	Lys	Ser	Trp	Ala	Gln	Gln	Thr	Glu	Glu	Ser	Phe	Gln	Leu	Gln	Gln
122		130					135					140				
W--> 123	Pro	Leu	Val	Leu	Arg	Leu	Ser	Ser	Asp	Xaa	Thr	Cys	Ala	Asp	Asp	Pro
124	145					150					155				160	
125	Asn	Phe	Met	Asp	Pro	Ile	Pro	Asp	Glu	Ala	Ala	Leu	Arg	Ser	Leu	Ser
126				165						170					175	
127	Ile	Ser	Ala	Glu	Ala	Ile	Ser	His	Arg	Phe	Trp	Val	Asn	Gly	Cys	Met
128				180					185					190		
129	Ser	Tyr	Leu	Glu	Lys	Val	Pro	Asp	Gly	Phe	Tyr	Leu	Ile	His	Gly	Met
130			195					200					205			
131	Asp	Pro	Tyr	Val	Trp	Ser	Leu	Cys	Thr	Asn	Leu	Gln	Glu	Asp	Gly	Arg
132		210					215					220				
133	Ile	Pro	Ser	Phe	Glu	Ser	Leu	Lys	Thr	Val	Asp	Ser	Ser	Ile	Gly	Ser
134	225					230					235				240	
135	Ser	Ile	Glu	Val	Val	Leu	Ile	Asp	Arg	His	Ser	Asp	Ala	Ser	Leu	Lys
136				245						250					255	
137	Glu	Leu	Gln	Asn	Arg	Val	His	Asn	Ile	Ser	Ser	Ser	Cys	Val	Thr	Thr
138				260					265					270		
139	Lys	Glu	Val	Ala	Asp	His	Ile	Ala	Lys	Leu	Val	Cys	Asn	His	Leu	Gly
140			275					280					285			
141	Gly	Ser	Val	Ser	Glu	Gly	Glu	Asp	Asp	Leu	Val	Ser	Ala	Trp	Lys	Glu
142		290					295					300				
143	Cys	Ser	Asp	Asp	Leu	Lys	Glu	Cys	Leu	Gly	Ser	Ala	Val	Ile	Pro	Leu
144	305					310					315				320	
145	Cys	Ser	Leu	Ser	Val	Gly	Leu	Cys	Arg	His	Arg	Ala	Leu	Leu	Phe	Lys
146				325						330					335	
147	Val	Leu	Ala	Asp	Ser	Ile	Asp	Leu	Pro	Cys	Arg	Ile	Ala	Lys	Gly	Cys
148				340					345					350		
149	Lys	Tyr	Cys	Thr	Arg	Asp	Asp	Ala	Ser	Ser	Cys	Leu	Val	Arg	Phe	Gly
150			355					360					365			
151	Leu	Asp	Arg	Glu	Tyr	Leu	Ile	Asp	Leu	Ile	Gly	Arg	Pro	Gly	Cys	Leu
152		370					375					380				
153	Cys	Gln	Pro	Asp	Ser	Leu	Leu	Asn	Gly	Pro	Ser	Ser	Ile	Ser	Ile	Ser
154	385					390					395				400	
155	Ser	Pro	Leu	Arg	Phe	Pro	Arg	Leu	Lys	Pro	Ile	Glu	Ser	Thr	Ile	Asp
156				405						410					415	
157	Phe	Arg	Ser	Leu	Ala	Lys	Gln	Tyr	Phe	Leu	Asp	Ser	Gln	Ser	Leu	Asn
158				420					425					430		
159	Leu	Val	Phe	Asp	Glu	Ala	Ser	Ser	Gly	Asn	Val	Val	Ser	Gly	Lys	Asp
160			435					440					445			
161	Ala	Ala	Phe	Ser	Val	Tyr	Gln	Arg	Pro	Leu	Asn	Arg	Lys	Asp	Val	Asp
162		450					455					460				

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/904,389

DATE: 07/26/2001
 TIME: 15:20:10

Input Set : A:\4257-0029.30-SEQLIST.txt
 Output Set: N:\CRF3\07262001\I904389.raw

```

163 Gly Lys Thr Ile Val Val Thr Gly Asp Lys Asp Arg Asn Ser Gln Leu
164 465                               470                               475                               480
165 Leu Asn Lys Lys Ala Ala Gln Leu Asn Thr Gln Asp Gly Lys Ser Glu
166                               485                               490                               495
167 Gln Phe Arg Ser Cys Val Ala Ser Pro Tyr Ser Val Gln Ser Thr Pro
168                               500                               505                               510
169 Phe Val Glu Asn Val Val Pro Leu Ser His Ile Ser His Ile Gly Ser
170                               515                               520                               525
171 Glu Asp Ser Glu His Leu Leu Ala Leu Ser His Pro Arg Met Asp His
172                               530                               535                               540
173 Val Asn Asn Leu Pro Phe Val His Gly Ser Gln Leu Ile Arg Lys Pro
174 545                               550                               555                               560
175 Asn Glu Leu Ser Leu Gly Leu Glu Asp Leu Val Ile Pro Trp Thr Asp
176                               565                               570                               575
177 Leu Asp Leu Arg Glu Lys Ile Gly Ala Gly Ser Phe Gly Thr Val Tyr
178                               580                               585                               590
179 Arg Gly Glu Trp His Gly Ser Asp Val Ala Val Lys Ile Leu Thr Glu
180                               595                               600                               605
181 Gln Asp Phe His Pro Glu Arg Val Asn Glu Phe Leu Arg Glu Val Ala
182                               610                               615                               620
183 Ile Met Lys Ser Leu Arg His Pro Asn Ile Val Leu Phe Met Gly Ala
184 625                               630                               635                               640
185 Val Thr Lys Pro Pro Asn Leu Ser Ile Val Thr Glu Tyr Leu Ser Arg
186                               645                               650                               655
187 Gly Ser Leu Tyr Arg Leu Leu His Lys Ser Gly Val Lys Asp Ile Asp
188                               660                               665                               670
189 Glu Thr Arg Arg Ile Asn Met Ala Phe Asp Val Ala Lys Gly Met Asn
190                               675                               680                               685
191 Tyr Leu His Arg Arg Asp Pro Pro Ile Val His Arg Asp Leu Lys Ser
192                               690                               695                               700
193 Pro Asn Leu Leu Val Asp Lys Lys Tyr Thr Val Lys Val Cys Asp Phe
194 705                               710                               715                               720
195 Gly Leu Ser Arg Leu Lys Ala Arg Thr Phe Leu Ser Ser Lys Ser Ala
196                               725                               730                               735
197 Ala Gly Thr Pro Glu Trp Met Ala Pro Glu Val Leu Arg Asp Glu Pro
198                               740                               745                               750
199 Ser Asn Glu Lys Ser Asp Val Tyr Ser Phe Gly Val Ile Leu Trp Glu
200                               755                               760                               765
201 Leu Ala Thr Leu Gln Gln Pro Trp Cys Asn Leu Asn Pro Ala Gln Val
202                               770                               775                               780
203 Val Ala Ala Val Gly Phe Lys Gly Lys Arg Leu Asp Ile Pro Arg Asp
204 785                               790                               795                               800
205 Val Asn Pro Lys Leu Ala Ser Leu Ile Val Ala Cys Trp Ala Asp Glu
206                               805                               810                               815
207 Pro Trp Lys Arg Pro Ser Phe Ser Ser Ile Met Glu Thr Leu Lys Pro
208                               820                               825                               830
209 Met Thr Lys Gln Ala Pro Pro Gln Gln Ser Arg Thr Asp Thr Leu Ser
210                               835                               840                               845
211 Val Met

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,389

DATE: 07/26/2001

TIME: 15:20:10

Input Set : A:\4257-0029.30-SEQLIST.txt

Output Set: N:\CRF3\07262001\I904389.raw

```

212      850
214 <210> SEQ ID NO: 3
215 <211> LENGTH: 28
216 <212> TYPE: DNA
C--> 217 <213> ORGANISM: Artificial Sequence
219 <220> FEATURE:
220 <223> OTHER INFORMATION: synthetic oligonucleotide
222 <400> SEQUENCE: 3
223 caatatttac atccyttggc aattcgac 28
225 <210> SEQ ID NO: 4
226 <211> LENGTH: 29
227 <212> TYPE: DNA
228 <213> ORGANISM: Artificial Sequence
230 <220> FEATURE:
231 <223> OTHER INFORMATION: synthetic oligonucleotide
233 <400> SEQUENCE: 4
234 cgtgstgakt ggcattggctc kgatgttgc 29
236 <210> SEQ ID NO: 5
237 <211> LENGTH: 24
238 <212> TYPE: DNA
239 <213> ORGANISM: Artificial Sequence
241 <220> FEATURE:
242 <223> OTHER INFORMATION: synthetic oligonucleotide
244 <400> SEQUENCE: 5
245 atgttttggga tctgctgtga ttcc 24
247 <210> SEQ ID NO: 6
248 <211> LENGTH: 24
249 <212> TYPE: DNA
250 <213> ORGANISM: Artificial Sequence
252 <220> FEATURE:
253 <223> OTHER INFORMATION: synthetic oligonucleotide
255 <400> SEQUENCE: 6
256 tttggtggct tggtcaccgc accc 24
258 <210> SEQ ID NO: 7
259 <211> LENGTH: 24
260 <212> TYPE: DNA
261 <213> ORGANISM: Artificial Sequence
263 <220> FEATURE:
264 <223> OTHER INFORMATION: synthetic oligonucleotide
266 <400> SEQUENCE: 7
267 catgtgttgc ttctccatat agtg 24
269 <210> SEQ ID NO: 8
270 <211> LENGTH: 24
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <223> OTHER INFORMATION: synthetic oligonucleotide
277 <400> SEQUENCE: 8
278 tcatttatgt ctttgacacc tgac 24

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/904,389

DATE: 07/26/2001

TIME: 15:20:11

Input Set : A:\4257-0029.30-SEQLIST.txt

Output Set: N:\CRF3\07262001\I904389.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:47 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:123 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:217 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3